

DEPARTMENT OF TRANSPORTATION

DES-OE MS #43
1727 30TH Street, 2ND Floor
Sacramento, CA 95816



**** WARNING ** WARNING ** WARNING ** WARNING ****
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August 5, 2003

04-SF-80-13.2/13.9
04-0120F4
ACBRIM-080-1(095)N

Addendum No. 10

Dear Contractor:

This addendum is being issued to the contract for construction on State highway in SAN FRANCISCO COUNTY IN SAN FRANCISCO FROM 0.6 KM TO 1.3 KM EAST OF THE YERBA BUENA TUNNEL EAST PORTAL.

Submit bids for this work with the understanding and full consideration of this addendum. The revisions declared in this addendum are an essential part of the contract.

Bids for this work will be opened on October 21, 2003.

This addendum is being issued to revise the Project Plans, the Notice to Contractors and Special Provisions, and the Proposal and Contract.

Project Plan Sheets 46, 48, 53, 55, 69, 70, 71, 82, 92, 93, 106, 108, 119, 120, 121, 126, 137, 140, 142, 163, 164, 166, 167, 171, 172, 174, 176, 190, 191, 192, 193, 198, 204, 205, 213, 215, 216, 217, 283, 288, 290, 306, 311, 329, 330, 331, 332, 345, 351, 370, 371, 378, 406, 417, 523, 553, 554, 577, 578, 579, 582, 584, 601, 623, 624, 720, 722, 858, 905, and 936 are revised. Half-sized copies of the revised sheets are attached for substitution for the like-numbered sheets.

Project Plan Sheets 624A and 624B are added. Half-sized copies of the added sheets are attached for addition to the project plans.

In the Notice to Contractors and Special Provisions, and the Proposal and Contract, "IMPORTANT SPECIAL NOTICES," the following notices are added after the last paragraph:

"Submission of DBE Information

Attention is directed to Section 2-1.02B, "Submission of DBE Information," of the special provisions, regarding submittal of the "CALTRANS BIDDER - DBE INFORMATION" form and GOOD FAITH EFFORT (GFE) DOCUMENTATION form.

ALL bidders shall complete the "CALTRANS BIDDER - DBE INFORMATION" form included in the Proposal and submit it WITH THE BID.

The apparent successful bidder (low bidder), the second low bidder and the third low bidder shall submit the GOOD FAITH EFFORT (GFE) DOCUMENTATION form by THE FOURTH DAY following bid opening.

The bidder shall submit written confirmation from each DBE that the DBE is participating in the contract, and include the confirmation with the submittal of the bid or submit it by the time specified for submittal of the GOOD FAITH EFFORT (GFE) DOCUMENTATION form.

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FAILURE TO SUBMIT THE REQUIRED DBE INFORMATION AND THE GFE DOCUMENTATION, IF REQUIRED, BY THE TIMES SPECIFIED WILL BE GROUNDS FOR FINDING THE BID OR PROPOSAL NONRESPONSIVE.

The provisions regarding the information and supporting documents the bidder should submit to establish the bidder's good faith efforts to meet the DBE goal, and the "DBE Information Good Faith Efforts" form in the Proposal, have been enhanced for clarification.

Special Provision Section 2-1.02B, "Submission of DBE Information," requires DBE information to be submitted on the "CALTRANS BIDDER – DBE - INFORMATION" form included in the proposal. To meet the DBE goal or to establish that good faith efforts to meet the DBE goal have been made, bidders are reminded that DBE participation should be identified for all items of work performed by DBE's. In this regard, bidders are reminded that utilization of DBE's may be reflected in such bid items as "Establish Marine Access", "Mobilization" and "Time-Related Overhead". The extent of DBE participation in such items of work may be credited towards the DBE contract goal.

The Contractor is encouraged to actively recruit and hire qualified DBE firms and employees in the San Francisco Bay Area."

In the Special Provisions, "NOTICE TO CONTRACTORS," the following paragraphs are added after the eighth paragraph:

"A meeting to address bidder's technical inquiries will be held on August 28, 2003 at 9:00 a.m. (Pacific Time) in the Auditorium, District 4 Office, 111 Grand Ave, Oakland, CA 94612. The purpose of the meeting is to provide preliminary answers to bidder's technical inquiries. Prospective bidders unable to attend in person may dial the teleconference call-in number 510-286-2230. The call leader is Brian Maroney.

Bidders who are participating in this meeting shall submit their questions in writing to the Duty Senior at the District 4 Office, 111 Grand Avenue, Oakland, California 94612, Fax number: (510) 622-1805, e-mail address: duty_senior_district04@dot.ca.gov, telephone: (510) 286-5209, no later than 4:00 p.m. on August 26, 2003. The written inquiry should clearly identify the contractor's identity and the contract specification(s) or drawing(s) that form the basis for the question. Each question should be separately numbered.

To the extent feasible and at the discretion of the Department, an oral response will be provided to each written question. A technical panel will be available to review the inquiries, request further information from the bidder, and then provide preliminary feedback to the bidder. The Department's final written response to each question will be made available to all bidders in accordance with the bidder inquiry provisions of this Notice to Contractors. Bidders are cautioned that oral responses and instructions given at the meeting are not binding on the Department."

In the Special Provisions, Section 2-1.02B, "SUBMISSION OF DBE INFORMATION," is revised as attached.

In the Special Provisions, Section 2-1.03, "PRE-AWARD INFORMATION/QUESTIONNAIRE," the second paragraph is revised as follows:

"In signing the signature page of the Proposal, the bidder certifies that the information and answers in response to the PAIQ and MFSQA are complete and accurate. Failure to completely answer the PAIQ and MFSQA or failure to include responses from all potential subcontractors known or considered at the time of bid may be a contributing factor for considering the bidder non-responsive and a reason for rejection of the bid."

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In the Special Provisions, Section 3-1.01A, "PRE-AWARD QUALIFICATIONS MEETING," the first sentence of the first paragraph is revised as follows:

"Bidders are advised that on **October 29, 2003 at 1:00 p.m. in the third floor conference room 1727 30th Street, Sacramento, CA 95816**, the apparent low bidder shall participate in a pre-award qualification review meeting conducted by one or more agents of the Director and the Engineer."

In the Special Provisions, Section 5-1.27, "PAYMENTS," the eighth paragraph is revised as follows:

"Attention is directed to Section 2-1.05, "Alternative Bids," and Section 3, "Award and Execution of the Contract," of these special provisions. If the contract is awarded based upon a bid pursuant to "Engineer's Estimate, Alternative 1, Foreign Steel and Iron Alternative," the following shall apply: For the purpose of making partial payments for plate steel and fabricated elements for structural steel fabricated and stored outside the United States pursuant to these special provisions and Section 9-1.06, "Partial Payments," of the Standard Specifications, the amount of \$50,000,000 for each monthly pay estimate shall be deemed to be the maximum value which will be recognized for progress payment purposes for material furnished but not incorporated in the work, until such material is brought into the United States."

In the Special Provisions, Section 8-3.01, "WELDING," subsection "GENERAL," the ninth paragraph is revised as follows:

"For any welding, the Engineer may perform or direct the Contractor to perform NDT that is in addition to the visual inspection or NDT specified in the AWS welding codes, in the Standard Specifications, or in these special provisions to verify that the welds are free of defects as defined by the AWS codes specified in this contract. The Contractor will not be entitled to compensation for additional NDT performed by the Engineer. All additional NDT directed by the Engineer that is performed by the Contractor will be paid for as extra work as provided in Section 4-1.03D, "Extra Work," of the Standard Specifications. The cost of labor and consumables for this additional NDT shall not exceed the cost of any regularly scheduled NDT of the same type on this project. Should any welding defects be discovered by this additional NDT, all costs associated with the repair of the deficient area, including NDT of the weld repair and any delays caused by the repair shall be at the Contractor's expense."

In the Special Provisions, Section 10-1.02, "WATER POLLUTION CONTROL," subsection "STORM WATER POLLUTION PREVENTION PLAN PREPARATION, APPROVAL AND AMENDMENTS," the third paragraph is revised as follows:

"The Contractor shall designate a Water Pollution Control Manager. The Water Pollution Control Manager shall be responsible for the preparation of the SWPPP and required modifications or amendments, and shall be responsible for the implementation and adequate functioning of the various water pollution control practices employed. The Contractor may designate different Water Pollution Control Managers to prepare the SWPPP and to implement the water pollution control practices. The Water Pollution Control Managers shall serve as the primary contact for issues related to the SWPPP or its implementation. The Contractor shall submit to the Engineer a statement of qualifications, describing the training, previous work history and expertise of the individual selected by the Contractor to serve as Water Pollution Control Manager. The Water Pollution Control Manager shall have a minimum of 16 hours of formal storm water management training or certification as a Certified Professional in Erosion and Sediment Control (CPESC). The Engineer will reject the Contractor's submission of a Water Pollution Control Manager if the submitted qualifications are deemed to be inadequate."

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In the Special Provisions, Section 10-1.02, "WATER POLLUTION CONTROL," subsection "MAINTENANCE," is revised as follows:

"To ensure the proper implementation and functioning of water pollution control practices, the Contractor shall regularly inspect and maintain the construction site for the water pollution control practices identified in the SWPPP. The construction site shall be inspected by the Contractor as follows:

- A. Prior to a forecast storm.
- B. After a precipitation event which causes site runoff.
- C. At 24 hour intervals during extended precipitation events.
- D. Routinely, a minimum of once every 7 calendar days.

The Contractor shall use the Storm Water Quality Construction Site Inspection Checklist provided in the Preparation Manual or an alternative inspection checklist provided by the Engineer. One copy of each site inspection record shall be submitted to the Engineer within 24 hours of completing the inspection."

In the Special Provisions, Section 10-1.12, "TIME-RELATED OVERHEAD," is revised as attached.

In the Special Provisions, Section 10-1.36, "TEMPORARY TOWERS," subsection "CONSTRUCTION," the fourth paragraph is revised as follows:

"Welding, welder qualification, and inspection of welding for all steel members shall, at a minimum, conform to the requirements of AWS D1.1, except that all CJP welds that sustain tension shall be tested by UT or RT."

In the Special Provisions, Section 10-1.43, "TOWER CROSS BRACING SPHERICAL BUSHING BEARING," subsection "TESTING," subsection "Testing Requirements," the second paragraph is revised as follows:

"The bearing and its load transfer plates shall be centered in a press capable of loads in excess of the test load of 1.5 MN."

In the Special Provisions, Section 10-1.43, "TOWER CROSS BRACING SPHERICAL BUSHING BEARING," subsection "FRICTION TEST," in the first paragraph, the first sentence of Item D is revised as follows:

"D. To begin the friction test, a downwards test load shall be applied of 1.5 MN."

In the Special Provisions, Section 10-1.43, "TOWER CROSS BRACING SPHERICAL BUSHING BEARING," subsection "WEAR TEST," in the first paragraph, the first sentence of Item B is revised as follows:

"A downwards test load shall be applied of 750 kN."

In the Special Provisions, Section 10-1.45, "INSTALL CIRCULAR SEGMENTED BEARING (HINGE A)," subsection "GENERAL," the second paragraph is deleted.

In the Special Provisions, Section 10-1.45, "INSTALL CIRCULAR SEGMENTED BEARING (HINGE A)," subsection "WORKING DRAWINGS," in the third paragraph, the following item is added under Item B:

"3. Bearing grout mix design and method of placement and curing. Bearing grout shall conform to the section "High Strength Nonshrink Grout" of these special provisions."

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In the Special Provisions, Section 10-1.45, "INSTALL CIRCULAR SEGMENTED BEARING (HINGE A)," subsection "MEASUREMENT AND PAYMENT," the second paragraph is revised as follows:

"The contract unit price paid for install circular segmented bearing (Hinge A) shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in inspection, delivery, and installation of the bearing including a qualified representative of the manufacturer and high strength nonshrink grout placement, complete in place, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer."

In the Special Provisions, Section 10-1.51, "STEEL STRUCTURES," subsection "ERECTION PLAN," in the sixth paragraph, Item J is added as follows:

"J. Methods for measuring the reactions at Hinge A (Contract No. 04-012024) and Hinge K (Contract No. 04-0120P4). If the measured reactions per box girder exceed 2.25 MN at Hinge A or 1.0 MN at Hinge K, the Contractor shall immediately notify the Engineer in writing. The Engineer may direct the Contractor to make modifications to the erection plan based on the measured reactions. Modifications to the erection plan will be paid for as extra work as provided in Section 4-1.03D, "Extra Work," of the Standard Specifications."

In the Special Provisions, Section 10-1.51, "STEEL STRUCTURES," subsection "ERECTION PLAN," the following paragraphs are added after the eighth paragraph:

"Attention is directed to the Alternative Camber Method shown on the plans. At the option of the Contractor, the Alternative Camber Method may be used to facilitate early fabrication of the box girder in accordance with the requirements shown on the plans and in this section.

Use of the Alternative Camber Method shall in no way relieve the Contractor from completing the erection plan as specified in these special provisions. The final approved erection plan shall incorporate all conditions of the as-built structure, including the measured reactions at Hinge A and Hinge K, the weight of all material, the fabricated box girder cambers, and the calculated tension and fabricated length of all suspenders and cable strands. The Contractor's final approved erection plan shall include all effects on the suspension system and the box girders from panel 95 to Hinge A resulting from use of the Alternate Camber Method. No additional compensation will be allowed because of the use of the Alternative Camber Method."

In the Special Provisions, Section 10-1.51, "STEEL STRUCTURES," subsection "WEIGHT CONTROL," the third paragraph is revised as follows:

"Weight reports shall be submitted using a format described in the approved weight control procedure. These reports shall include the weight of all installed components including utilities, platform barriers, counter weight and roadway wearing surfaces including the range of uncertainty in the estimated final weight."

In the Special Provisions, Section 10-1.51, "STEEL STRUCTURES," subsection "FABRICATION," subsection "Shop Size," the first paragraph is revised as follows:

"The shop or yard shall be of sufficient size and shall have adequate facilities to permit checking and controlling of the alignment of the box girder and tower lifts before they are shipped to the site. Shop or yard size shall be sufficient to join any three contiguous segments or any lift plus an adjacent segment, whichever is larger."

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In the Special Provisions, Section 10-1.51, "STEEL STRUCTURES," subsection "FABRICATION," subsection "Fabrication/Erection Procedure and Mock-Ups," item E of the fourth paragraph is revised as follows:

- "E. Box panel assembly with closed ribs Deck plate section – (For welding requirements of closed ribs to deck plate, see "Welding of Closed Ribs to Box Shell Plates" below.)"

In the Special Provisions, Section 10-1.51, "STEEL STRUCTURES," subsection "FABRICATION," subsection "Fabrication/Erection Procedure and Mock-Ups," the following paragraph is added after the seventh paragraph:

"Mock-ups shall not be part of the permanent structure and shall become the property of the Contractor. Mock-ups shall be removed from the work site and shall be disposed of in conformance with the provisions in Section 7-1.13, "Disposal of Material Outside the Highway Right of Way," of the Standard Specifications."

In the Special Provisions, Section 10-1.51, "STEEL STRUCTURES," subsection "ASSEMBLY," subsection "Tower Lift Sections," the following paragraphs are added after the second paragraph:

"The fillet reinforcement required by Note 6 of Figures 2.4 and 2.5 of AWS D1.5 will not be required for PJP welds in the tower.

The tower interior corner splice plates shall be beveled 6 mm to clear weld beads on inside joint of tower corner skin plates subject to approval of the Engineer."

In the Special Provisions, Section 10-1.51, "STEEL STRUCTURES," subsection "ASSEMBLY," subsection "Tower Lift Sections," the last paragraph is revised as follows:

"Tower struts shall be installed into their tower connections without inducing shear stresses. At the option of the Contractor, cross bracing and shear links may be used to obtain the required tolerances between shafts provided the axial loads in the cross bracing or shear links do not exceed 1 MN per member. The Contractor shall estimate the force in these members based on the approved erection plan and submit the calculations to the Engineer for review and approval. Bolt holes for the shear link connection plates may be field drilled subject to review and approval by the Engineer. The pin holes for the cross bracing may be bored in the shop to match field measurements subject to review and approval by the Engineer. The layout of the bolt holes shall be submitted to the Engineer for approval."

In the Special Provisions, Section 10-1.51, "STEEL STRUCTURES," subsection "SHOP WELDING," subsection "Design Details," the second and third sentences of Item G.3.d are deleted.

In the Special Provisions, Section 10-1.51, "STEEL STRUCTURES," subsection "SHOP WELDING," subsection "Design Details," Item G.4 is revised as follows:

- "4. The dimensional tolerances for the fabrication, assembly and erection of the tower shall conform to the tolerances in AWS D1.5 and the following:
 - A. Each shaft of the tower shall be plumb within 1 mm in 2500 mm. In addition, the out-of-plumbness of each tower lift shall not exceed 1 mm in 1000 mm.

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- B. The longitudinal, transverse and diagonal distances between any two tower shaft corners AE shall not exceed a tolerance of 1 mm in 500 mm.
- C. The tolerance on the location of the corners of the tower shaft segment ends along the height of the tower shall be as follows:

Corner	AE	AB	BC	CD	DE
Elevation at 3.125m	5 mm	5 mm	5 mm	5 mm	5 mm
All other locations	5 mm	10 mm	15 mm	15 mm	10 mm

Note that the above tolerances are relative to the plumbness tolerances of 1 mm in 2500 mm on the tower shaft.

- D. At each tower strut location, the relative vertical location of the shear link connection between adjacent tower shafts shall not exceed 10 mm. A maximum of 5 mm thick shim plates may be used at the flange splice plates so that the shear links are level to 1 mm in 2500 mm after they are connected to the tower shafts. The elevation of each diaphragm shall be within 10 mm of the theoretical elevation. All modified connections shall be subject to review and approval by the Engineer.
- E. The horizontal tolerance on the location of the tower base plate is 10 mm with respect to the as-built foundation.
- F. The misalignment at bolted or welded vertical tower stiffener splices shall not exceed 2 mm. Splice plates shall be aligned within 1.5 mm at each end to the installed stiffener plates.
- G. The top surface of the grillage top plate shall be flat to within a tolerance of 1/1000.
- H. The tolerance for the total height of the tower is 75 mm and shall be taken after tower construction is completed and before cable erection.
- I. The tolerance of the tower anchorage anchor bolt holes shall be $-0/+2$ mm.
- J. The tolerance for the distance between tower anchorage anchor bolt centers is 2 mm. This tolerance is relative to the working drawings for the as-fabricated tower footing provided by the State.
- K. The tolerance for the tower anchorage anchor bolt stiffener plate is $-0/+3$ mm.
- L. The tolerance of the gap for longitudinal stiffener bolted splice is $-0/+2$ mm.
- M. The straightness of each tower lift, tower segment and tower skin plate/longitudinal stiffener between diaphragms shall satisfy the requirements of AWS D1.5-02 Section 3.5.
- N. The tolerance on the location of the longitudinal stiffeners in the tower shaft and tower anchorage shall be 2 mm."

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In the Special Provisions, Section 10-1.51, "STEEL STRUCTURES," subsection "SHOP WELDING," subsection "Welding of Closed Ribs to Box Shell Plate," Item B, the first, second, third, and four paragraphs are revised as follows:

"B. Weld Procedure Trials– For closed rib welds to the deck plate, the Contractor shall perform weld trials on the mock-up using the mechanized SAW welding system that will be used in production. The qualification trial shall be run with the same number of ribs that will be run in production. The full number of macro specimens defined below shall be taken from a rib selected by the Engineer. All other ribs shall have 3 macros taken from each weld at locations selected by the Engineer.

Tack welding shall be considered as part of the weld qualification, including size and location of tacks, limits on essential variables and other qualification limitations. Tack welding shall be automated unless approved otherwise in writing by the Engineer, in which case the UT inspection of production welds shall be 100%.

The trials shall be conducted with welding machines, parameters, root openings and bevels as shown in the approved WQCP. Pre-bending, or other measures that will be used to control distortion during production, shall be defined and used during the trials. The weld trial shall be performed on the ribs of the mock-up. If tack welds will be used during production, tack welds shall be made at the maximum spacing to be used in production and prepared as will be done during production. During these trials, the welding shall be stopped at every 2.0 meters, and then restarted.

At completion of welding of all closed ribs to deck plate, the welded panels shall be checked for straightness and other production tolerances. The welded, unstraightened panel shall be flat within 1 in 1000. If the unstraightened panel is not flat within 1 in 1000, new measures such as different prebending or fixturing shall be proposed, and new trial panels welded. If the flatness requirement is satisfied, all remaining plates of the deck plate section shall be welded on to complete the steel mock-up. Testing of the closed rib welds shall be conducted after welding of all components of the mock-up have been completed."

In the Special Provisions, Section 10-1.51, "STEEL STRUCTURES," subsection "INSPECTION AND TESTING," in the table following the fourth paragraph under section "1.BOX GIRDER: 1.1 Box Shell," in the thirteenth row the component "Closed rib to shell plate" is deleted.

In the Special Provisions, Section 10-1.51, "STEEL STRUCTURES," subsection "INSPECTION AND TESTING," in the table following the fourth paragraph under section "1.BOX GIRDER: 1.1 Box Shell," in the twenty-first row the component "Deck plate transverse splice at Modular joint assembly" is revised as follows:

Deck plate transverse splice at	X			100%		
Seismic joint		X		100%		

In the Special Provisions, Section 10-1.52, "CABLE SYSTEM," subsection "GENERAL", subsection "Working Drawings," in the second paragraph, Item C, Item 14 is added as follows:

"14. Calculations indicating the void ratio within the saddles."

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In the Special Provisions, Section 10-1.52, "CABLE SYSTEM," subsection "ERECTION," subsection "PWS Cables," the sixth paragraph is revised as follows:

"Circumferential saddle marks of the first erected strand shall be placed on-the-mark at the tower saddles, deviation saddles, jacking saddles and splay saddles and blocked with shims in between the saddle separating plates as necessary to hold it in position. At this stage, the Contractor shall shake-out the first strand in order to verify wire slippage. The allowable spread of wires in the first strand at any given location shall not exceed 500 mm. If the spread of the wire at any given location exceeds 500 mm, the Contractor shall investigate the cause of the wire slippage, propose corrective measures, and submit the corrective measures to the Engineer for approval prior to erecting additional strands. The Contractor shall then shake-out the second strand to verify the adequacy of the proposed corrective measures. At the option of the Contractor, the Contractor may submit to the Engineer for approval a procedure to monitor wire slippage in lieu of performing the first strand shake-out. This procedure shall demonstrate the relative wire slippage results in wire spread less than 500 mm. The sag of the first erected strand shall be adjusted in each span to the proper bare-cable sag. The sag shall be surveyed and adjusted during a period when the strand and the air temperature are uniform. The strand shall be adjusted to the calculated sag to an accuracy of 50 mm. All other strands in the cable shall subsequently be adjusted to sag properly with respect to the surveyed strand, following the approved cable erection plan."

In the Proposal and Contract, the form "CALTRANS BIDDER – DBE – INFORMATION" is revised as attached.

In the Proposal and Contract, the form "DBE INFORMATION GOOD FAITH EFFORTS" is replaced by "GOOD FAITH EFFORTS DOCUMENTATION" as attached.

In the Proposal and Contract, in the Engineer's Estimate, Alternatives 1 and 2, Item 6 is revised as attached.

To Proposal and Contract book holders:

Replace pages 28 and 36 of the Engineer's Estimate in the Proposal with the attached revised pages 28 and 36 of the Engineer's Estimate. The revised Engineer's Estimate is to be used in the bid.

Indicate receipt of this addendum by filling in the number of this addendum in the space provided on the signature page of the proposal.

Submit bids in the Proposal and Contract book you now possess. Holders who have already mailed their book will be contacted to arrange for the return of their book.

Inform subcontractors and suppliers as necessary.

This office is sending this addendum by UPS overnight mail to Proposal and Contract book holders to ensure that each receives it.

If you are not a Proposal and Contract book holder, but request a book to bid on this project, you must comply with the requirements of this letter before submitting your bid.

Sincerely,

ORIGINAL SIGNED BY JEFF L DeFEVERE

REBECCA D. HARNAGEL, Chief
Office of Plans, Specifications & Estimates
Office Engineer

Attachments

2-1.02B SUBMISSION OF DBE INFORMATION

All bidders shall complete the "CALTRANS BIDDER - DBE INFORMATION" form included in the Proposal and submit it WITH THE BID.

Failure to submit the "CALTRANS BIDDER - DBE INFORMATION" form with the bid will be grounds for finding the bid nonresponsive.

The bidder shall submit written confirmation from each DBE that the DBE is participating in the contract, and include the confirmation with the submittal of the bid or submit it by the time specified for submittal of the GOOD FAITH EFFORT (GFE) DOCUMENTATION form. A copy of a DBE's quote will serve as written confirmation that the DBE is participating in the contract.

Where the bidder has not met the designated DBE goal, it must submit good faith efforts (GFE) documentation to establish that, prior to the bid, it made adequate good faith efforts to meet the goal.

Bidders are cautioned that even though their "CALTRANS BIDDER - DBE INFORMATION" form indicates they will meet the stated DBE goal, they should also submit their GFE documentation within the time specified herein, to protect their eligibility for award of the contract in the event the Department, in its review, finds that the goal has not been met.

The apparent successful bidder (low bidder), the second low bidder and the third low bidder shall complete and submit the GOOD FAITH EFFORT (GFE) DOCUMENTATION form, if they have not met the goal, to the Department of Transportation, 1120 N Street, Room 0200, MS #26, Sacramento, California 95814 so the information is received by the Department no later than 4:00 p.m. ON THE FOURTH DAY, not including Saturdays, Sundays and legal holidays, following bid opening. GFE documentation sent by U.S. Postal Service certified mail with return receipt and certificate of mailing and mailed on or before the third day, not including Saturdays, Sundays and legal holidays, following bid opening will be accepted even if it is received after the fourth day following bid opening. Other bidders need not submit GFE documentation unless requested to do so by the Department. When a request is made by the Department, the GFE documentation of the other bidders shall be received by the Department within 4 days of the request, not including Saturdays, Sundays and legal holidays, unless a later time is authorized by the Department.

If it is determined that GFE documentation is needed to determine a bidder's eligibility for award, failure of the bidder to have submitted the GFE documentation by the time specified herein will be grounds for finding the bid or proposal nonresponsive.

It is the bidder's responsibility to make enough work available to DBEs and to select those portions of the work or material needs consistent with the available DBEs to meet the goal for DBE participation.

The bidder's "CALTRANS BIDDER - DBE INFORMATION" form shall include the names, addresses and phone numbers of DBE firms that will participate, with a complete description of work or supplies to be provided by each, and the dollar value of each DBE transaction. When 100 percent of a contract item of work is not to be performed or furnished by a DBE, a description of the exact portion of that work to be performed or furnished by that DBE shall be included in the DBE information, including the planned location of that work. The work that a DBE prime contractor has committed to performing with its own forces as well as the work that it has committed to be performed by DBE subcontractors, suppliers and trucking companies will count toward the goal.

The bidder's good faith effort (GFE) documentation shall establish that good faith efforts to meet the DBE goal have been made.

In order to establish the bidder's good faith efforts to meet the DBE goal, the bidder should include the following information and supporting documents, as necessary:

- A. Items of work the bidder has made available to DBE firms. Identify those items of work the bidder might otherwise perform with its own forces and those items that have been broken down into economically feasible units to facilitate DBE participation. For each item listed, show the dollar value and percentage of the total contract. It is the bidder's responsibility to demonstrate that sufficient work to meet the goal was made available to DBE firms.
- B. The names of certified DBEs and the dates on which they were solicited to bid on the project. Include the items of work offered. Describe the methods used for following up initial solicitations to determine with certainty if the DBEs were interested, and the dates of the follow-up. Attach supporting documents such as copies of letters, memos, facsimiles sent, telephone logs, telephone billing statements, and other evidence of solicitation. Bidders are reminded to solicit certified DBEs through all reasonable and available means and provide sufficient time to allow DBEs to respond.

- C. For each item of work made available, the DBEs that provided quotes, the selected firm and its status as a DBE, the price quote for each firm, and the name, address and telephone number for each firm. If the firm selected for the item is not a DBE, provide the reasons for the selection.
- D. The names and dates of each publication in which a request for DBE participation for the project was placed by the bidder. Attach copies of the published advertisements.
- E. The names of agencies, including the firms listed in Section 2-1.02A, "DBE Goal for this Project," and the dates on which they were contacted to provide assistance in contacting, recruiting and using DBE firms. If the agencies were contacted in writing, provide copies of supporting documents.
- F. Descriptions of the efforts made to provide interested DBEs with adequate information about the plans, specifications and requirements of the contract to assist them in responding to a solicitation. Where the bidder has provided information, identify the name of the DBE assisted, the nature of the information provided, and date of contact. Provide copies of supporting documents, as appropriate.
- G. Descriptions of any and all efforts made to assist interested DBEs in obtaining bonding, lines of credit, insurance, necessary equipment, supplies, and materials (excluding supplies and equipment which the DBE subcontractor purchases or leases from the prime contractor or its affiliate). Where such assistance was provided by the bidder, identify the name of the DBE assisted, nature of the assistance offered, and date. Provide copies of supporting documents, as appropriate.
- H. Any additional data to support a demonstration of good faith efforts.

10-1.12 TIME-RELATED OVERHEAD

The Contractor will be compensated for time-related overhead in conformance with these special provisions.

Attention is directed to "Beginning of Work, Time of Completion and Liquidated Damages," "Force Account Payment," and "Progress Schedule (Critical Path Method)" of these special provisions.

The provisions in Section 9-1.08, "Adjustment of Overhead Costs," of the Standard Specifications shall not apply.

Time-related overhead shall consist of those overhead costs, including field and home office overhead, that are in proportion to the time required to complete the work. Time-related overhead shall not include costs that are not related to time, including but not limited to, mobilization, licenses, permits, and other charges incurred only once during the contract.

Field office overhead expenses include time-related costs associated with the normal and recurring operations of the construction project, and shall not include costs directly attributable to the work of the contract. Time-related costs of field office overhead include, but are not limited to, salaries, benefits, and equipment costs of project managers, general superintendents, field office managers and other field office staff assigned to the project, and rent, utilities, maintenance, security, supplies, and equipment costs of the project field office.

Home office overhead or general and administrative expenses refer to the fixed costs of operating the Contractor's business. These costs include, but are not limited to, general administration, insurance, personnel and subcontract administration, purchasing, accounting, and project engineering and estimating. Home office overhead costs shall exclude expenses specifically related to other contracts or other businesses of the Contractor, equipment coordination, material deliveries, and consultant and legal fees.

The quantity of time-related overhead associated with a reduction in contract time for cost reduction incentive proposals accepted and executed in conformance with the provisions in Section 5-1.14, "Cost Reduction Incentive," of the Standard Specifications shall be considered a construction cost attributable to the resultant estimated net savings due to the cost reduction incentive.

If the final increased quantity of time-related overhead exceeds 149 percent of the contract lump sum price bid, the Contractor shall, within 60 days of the Engineer's written request, submit to the Engineer an audit examination and report performed by an independent Certified Public Accountant of the Contractor's actual overhead costs. The independent Certified Public Accountant's audit examination shall be performed in conformance with the requirements of the American Institute of Certified Public Accountants Attestation Standards. The audit examination and report shall depict the Contractor's project and company-wide financial records and shall specify the actual overall average daily rates for both field and home office overhead for the entire duration of the project, and whether the costs have been properly allocated. The rates of field and home office overhead shall exclude unallowable costs as determined in the Federal Acquisition Regulations, 48 CFR, Chapter 1, Part 31. The audit examination and report shall determine if the rates of field office overhead and home office overhead are:

- A. Allowable in conformance with the requirements of the Federal Acquisition Regulations, 48 CFR, Chapter 1, Part 31.
- B. Adequately supported by reliable documentation.
- C. Related solely to the project under examination.

Within 20 days of the Engineer's written request, the Contractor shall make its financial records available for audit by the State for the purpose of verifying the actual rate of time-related overhead specified in the audit submitted by the Contractor. The actual rate of time-related overhead specified in the audit, submitted by the Contractor, will be subject to approval by the Engineer.

If the Engineer requests the independent Certified Public Accountant audit, or if it is requested in writing by the Contractor, the contract item payment rate for time-related overhead, in excess of 149 percent of the contract lump sum price bid, will be adjusted to reflect the actual rate.

The cost of performing an independent Certified Public Accountant audit examination and submitting the report, requested by the Engineer, will be borne equally by the State and the Contractor. The division of the cost will be made by determining the cost of providing an audit examination and report in conformance with the provisions of Section 9-1.03B, "Work Performed by Special Forces or Other Special Services," of the Standard Specifications, and paying to the Contractor one-half of that cost. The cost of performing an audit examination and submitting the independent Certified Public Accountant audit report for overhead claims other than for the purpose of verifying the actual rate of time-related overhead shall be entirely borne by the Contractor.

Time-related overhead will be paid for at a lump sum price. The contract lump sum price bid for time-related overhead will be increased or decreased only as a result of suspensions or adjustments of contract time which revise the current contract completion date, and which satisfy any of the following criteria:

- A. Suspensions of work ordered in conformance with the provisions in Section 8-1.05, "Temporary Suspension of Work," of the Standard Specifications, except:
 - 1. Suspensions ordered due to weather conditions being unfavorable for the suitable prosecution of the controlling operation or operations.
 - 2. Suspensions ordered due to the failure on the part of the Contractor to carry out orders given, or to perform the provisions of the contract.
 - 3. Other suspensions mutually agreed upon between the Engineer and the Contractor.
- B. Extensions of contract time granted by the State in conformance with the provisions in the fifth paragraph in Section 8-1.07, "Liquidated Damages," of the Standard Specifications and set forth in approved contract change orders, in conformance with the provisions in Section 4-1.03, "Changes," of the Standard Specifications.
- C. Reductions in contract time set forth in approved contract change orders, in conformance with the provisions in Section 4-1.03, "Changes," of the Standard Specifications.

For each day the number of working days bid to complete the contract, in conformance with the provisions in "Beginning of Work, Time of Completion and Liquidated Damages," of these special provisions, is increased or decreased due to suspensions or adjustments of contract time as specified above, the lump sum price for time-related overhead will be increased or decreased by an amount equal to the contract lump sum price bid for time-related overhead divided by the number of working days bid to complete the contract.

In the event an early completion progress schedule, as defined in "Progress Schedule (Critical Path Method)" of these special provisions, is submitted by the Contractor and approved by the Engineer, the amount of time-related overhead eligible for payment will be based on the total number of working days for the project, in conformance with the provisions in "Beginning of Work, Time of Completion and Liquidated Damages" of these special provisions, rather than the Contractor's early completion progress schedule.

The contract lump sum price paid for time-related overhead shall include full compensation for time-related overhead, including the Contractor's share of costs of the independent Certified Public Accountant audit of overhead costs requested by the Engineer, as specified in these special provisions, and as directed by the Engineer.

The provisions in Sections 4-1.03B, "Increased or Decreased Quantities," and 4-1.03C, "Changes in Character of the Work," of the Standard Specifications shall not apply to the contract item of time-related overhead.

Full compensation for additional overhead costs involved in incentive and disincentive provisions to satisfy internal milestone or multiple calendar requirements shall be considered as included in the contract items of work involved and no additional compensation will be allowed therefor. Full compensation for additional overhead costs incurred during days of inclement weather when the contract work is extended into additional construction seasons due to delays caused by the State shall be considered as included in the time-related overhead paid during the contract working days, and no additional compensation will be allowed therefor.

Full compensation for additional overhead costs involved in performing additional contract item work that is not a controlling operation shall be considered as included in the contract items of work involved and no additional compensation will be allowed therefor.

Full compensation for overhead, other than time-related overhead measured and paid for as specified above, and other than overhead costs included in the markups specified in "Force Account Payment" of these special provisions, shall be considered as included in the various items of work and no additional compensation will be allowed therefor.

Overhead costs incurred by joint venture partners, subcontractors, suppliers or other parties associated with the Contractor shall be considered as included in the various overhead costs for which the Contractor is compensated, and no additional compensation will be allowed therefor.

For the purpose of making partial payments pursuant to the provisions in Section 9-1.06, "Partial Payments," of the Standard Specifications, the amount of time-related overhead in each monthly partial payment will be based on the number of working days that occurred during that monthly estimate period, including compensable suspensions and right of way delays. Working days granted by contract change order due to extra work or changes in character of the work, will be paid for upon completion of the contract. The amount earned per working day for time-related overhead shall be the lesser of the following amounts:

- A) The contract lump sum price for time-related overhead, divided by the number of working days bid to complete the contract, in conformance with the provisions in "Beginning of Work, Time of Completion and Liquidated Damages," of these special provisions.
- B) Fifteen percent of the original total contract amount divided by the number of working days bid to complete the contract, in conformance with the provisions in "Beginning of Work, Time of Completion and Liquidated Damages," of these special provisions.

After acceptance of the contract in conformance with the provisions in Section 7-1.17, "Acceptance of Contract," of the Standard Specifications, the amount of the contract lump sum price for time-related overhead not yet paid, will be included for payment in the first estimate made after acceptance of the contract in conformance with the provisions in Section 9-1.07, "Payment After Acceptance," of the Standard Specifications.

**ALTERNATIVE 1
FOREIGN STEEL AND IRON ALTERNATIVE
CALTRANS BIDDER - DBE - INFORMATION**

-- DO NOT DETACH --

This information must be submitted **WITH YOUR BID** proposal as specified in Section 2-1.02B, "Submission of DBE Information," of the Special Provisions.

Failure to submit the required DBE information will be grounds for finding the proposal nonresponsive.

DISTRICT-CO.-RTE.-K.P.: _____

DISTRICT-CONTRACT NO.: _____

BID AMOUNT: \$ _____

BID OPENING DATE: _____

BIDDER'S NAME: _____

DBE GOAL FROM CONTRACT, %: _____

DBE PRIME CONTRACTOR CERTIFICATION ¹: _____

CONTRACT ITEM NO.	ITEM OF WORK AND DESCRIPTION OR SERVICES TO BE SUBCONTRACTED OR MATERIALS TO BE PROVIDED ²	FOR CALTRANS USE ONLY	NAME OF DBEs (Must be certified on the date bids are opened - include Caltrans certification # , DBE address and phone number)	DOLLAR AMOUNT DBE ³
IMPORTANT: Identify all DBE firms being claimed for credit, regardless of tier. Names of the First Tier DBE Subcontractors and their respective item(s) of work listed above shall be consistent, where applicable, with the names and items of work in the "List of Subcontractors" submitted with your bid pursuant to the Subcontractors Listing Law and Section 2-1.01, "General," of the Special Provisions. Copies of the DBE quotes are required PURSUANT TO Section 2-1.02B, "Submission of DBE Information," of the Special Provisions.			Total Claimed Participation	\$ _____ _____ %
1. DBE prime contractors shall enter their DBE certification number. DBE prime contractors shall indicate all work to be performed by DBEs including work performed by its own forces. 2. If 100% of item is not to be performed or furnished by DBE, describe exact portion of item to be performed or furnished by DBE. 3. See Section 2-1.02, "Disadvantaged Business Enterprise," to determine the credit allowed for DBE firms.			_____ Signature of Bidder _____ Date (Area Code) Tel. No. _____ Person to Contact (Please Type or Print)	

CT Bidder - DBE Information (06-02-03)

- - DO NOT DETACH - -

Failure to submit the required DBE information will be grounds for finding the proposal nonresponsive.

DBE PRIME CONTRACTOR CERTIFICATION¹:

CT Bidder - DBE Information (06-02-03)

GOOD FAITH EFFORTS DOCUMENTATION

Low, second low and third low bidders shall submit the following information to document adequate good faith efforts. Bidders should submit the following information even if the "CALTRANS BIDDER - DBE INFORMATION" form indicates that the bidder has met the DBE goal. This will protect the bidder's eligibility for award of the contract if Caltrans determines that the bidder failed to meet the goal for various reasons, e.g., a DBE firm was not certified at bid opening, or the bidder made a mathematical error.

Submittal of only the "CALTRANS BIDDER - DBE INFORMATION" form may not provide sufficient documentation to demonstrate that an adequate good faith effort was made.

The following items are listed in the Section entitled "Submission of DBE Information" of the Special Provisions:

- A. Items of work the bidder made available to DBE firms. Identify those items of work the bidder might otherwise perform with its own forces and those items that have been broken down into economically feasible units to facilitate DBE participation. For each item listed, show the dollar value and percentage of the total contract. It is the bidder's responsibility to demonstrate that sufficient work to meet the goal was made available to DBE firms.

Item of Work Offered	Bidder Normally Performs Item (Y/N)	Item Broken Down to Facilitate Participation (Y/N)	Amount (\$)	Percentage of Contract

ALTERNATIVE 1**Bidder's DBE Info & Good Faith Efforts
(06-02-03) Page 2 of 3**

- B. The names of certified DBEs and the dates on which they were solicited to bid on this project. Include the items of work offered and the dates and methods used for following up initial solicitations to determine with certainty whether the DBEs were interested. Attach copies of solicitations, telephone records, fax confirmations, etc.

Names of DBEs Solicited	Date of Initial Solicitation	Item(s) of Work	Follow Up Methods and Dates

- C. For each item of work made available, the selected firm and its status as a DBE, the DBEs that provided quotes, the price quote for each firm, and the price difference for each DBE if the selected firm is not a DBE:

Item(s) of Work	Name of Selected Firm	DBE or non-DBE	Name of Rejected Firm	Quote (\$)	Price Difference (\$)

If the firm selected for the item is not a DBE, provide the reasons for the selection on a separate sheet and attach.

Names, addresses, and phone numbers for the firms listed above:

ALTERNATIVE 1

**Bidder's DBE Info & Good Faith Efforts
(06-02-03) Page 3 of 3**

- D. The names and dates of each publication in which a request for DBE participation for this project was placed by the bidder. Attach copies of published advertisements or proofs of publication:

Publications	Dates of Advertisement

- E. The names of agencies and the dates on which they were contacted to provide assistance in contacting, recruiting and using DBE firms. If the agencies were contacted in writing, provide copies of supporting documents.

Name of Agency		Method & Date of Contact		Results

- F. Efforts made to provide interested DBEs with adequate information about the plans, specifications, and requirements of the contract to assist them in responding to a solicitation. Identify the DBE assisted, the information provided, and the date of contact. Provide copies of supporting documents.

- G. Efforts made to assist interested DBEs in obtaining bonding, lines of credit, insurance, necessary equipment, supplies, materials, or related assistance or services, excluding supplies and equipment the DBE subcontractor purchases or leases from the prime contractor or its affiliate. Identify the DBE assisted, the assistance offered, and the date. Provide copies of supporting documents.

- H. Any additional data to support a demonstration of good faith efforts:

NOTE: USE ADDITIONAL SHEETS OF PAPER IF NECESSARY.

ALTERNATIVE 2

Bidder's DBE Info & Good Faith Efforts
(06-02-03) Page 1 of 3

GOOD FAITH EFFORTS DOCUMENTATION

Low, second low and third low bidders shall submit the following information to document adequate good faith efforts. Bidders should submit the following information even if the "CALTRANS BIDDER - DBE INFORMATION" form indicates that the bidder has met the DBE goal. This will protect the bidder's eligibility for award of the contract if Caltrans determines that the bidder failed to meet the goal for various reasons, e.g., a DBE firm was not certified at bid opening, or the bidder made a mathematical error.

Submittal of only the "CALTRANS BIDDER - DBE INFORMATION" form may not provide sufficient documentation to demonstrate that an adequate good faith effort was made.

The following items are listed in the Section entitled "Submission of DBE Information" of the Special Provisions:

- A. Items of work the bidder made available to DBE firms. Identify those items of work the bidder might otherwise perform with its own forces and those items that have been broken down into economically feasible units to facilitate DBE participation. For each item listed, show the dollar value and percentage of the total contract. It is the bidder's responsibility to demonstrate that sufficient work to meet the goal was made available to DBE firms.

Item of Work Offered	Bidder Normally Performs Item (Y/N)	Item Broken Down to Facilitate Participation (Y/N)	Amount (\$)	Percentage of Contract

ALTERNATIVE 2**Bidder's DBE Info & Good Faith Efforts
(06-02-03) Page 2 of 3**

- B. The names of certified DBEs and the dates on which they were solicited to bid on this project. Include the items of work offered and the dates and methods used for following up initial solicitations to determine with certainty whether the DBEs were interested. Attach copies of solicitations, telephone records, fax confirmations, etc.

Names of DBEs Solicited	Date of Initial Solicitation	Item(s) of Work	Follow Up Methods and Dates

- C. For each item of work made available, the selected firm and its status as a DBE, the DBEs that provided quotes, the price quote for each firm, and the price difference for each DBE if the selected firm is not a DBE:

Item(s) of Work	Name of Selected Firm	DBE or non-DBE	Name of Rejected Firm	Quote (\$)	Price Difference (\$)

If the firm selected for the item is not a DBE, provide the reasons for the selection on a separate sheet and attach.

Names, addresses, and phone numbers for the firms listed above:

ALTERNATIVE 2

**Bidder's DBE Info & Good Faith Efforts
(06-02-03) Page 3 of 3**

- D. The names and dates of each publication in which a request for DBE participation for this project was placed by the bidder. Attach copies of published advertisements or proofs of publication:

Publications	Dates of Advertisement

- E. The names of agencies and the dates on which they were contacted to provide assistance in contacting, recruiting and using DBE firms. If the agencies were contacted in writing, provide copies of supporting documents.

Name of Agency		Method & Date of Contact		Results

- F. Efforts made to provide interested DBEs with adequate information about the plans, specifications, and requirements of the contract to assist them in responding to a solicitation. Identify the DBE assisted, the information provided, and the date of contact. Provide copies of supporting documents.

- G. Efforts made to assist interested DBEs in obtaining bonding, lines of credit, insurance, necessary equipment, supplies, materials, or related assistance or services, excluding supplies and equipment the DBE subcontractor purchases or leases from the prime contractor or its affiliate. Identify the DBE assisted, the assistance offered, and the date. Provide copies of supporting documents.

- H. Any additional data to support a demonstration of good faith efforts:

NOTE: USE ADDITIONAL SHEETS OF PAPER IF NECESSARY.

ENGINEER'S ESTIMATE
ALTERNATIVE 1 FOREIGN STEEL AND IRON ALTERNATIVE
04-0120F4

Item	Item Code	Item	Unit of Measure	Estimated Quantity	Unit Price	Item Total
1	030748	WORKING DRAWING CAMPUS	LS	LUMP SUM	LUMP SUM	
2	030702	ELECTRONIC MOBILE DAILY DIAIRY COMPUTER SYSTEM DATA DELIVERY	LS	LUMP SUM	LUMP SUM	
3	BLANK					
4	030704	EROSION CONTROL (TYPE B)	M2	1570		
5	070010	PROJECT SCHEDULE (CRITICAL PATH)	LS	LUMP SUM	LUMP SUM	
6	070018	TIME-RELATED OVERHEAD	LS	LUMP SUM	LUMP SUM	
7	071322	TEMPORARY FENCE (TYPE CL-1.8)	M	205		
8	030705	3.66 M TEMPORARY GATE (TYPE CL-1.8)	EA	1		
9	049281	FURNISH AND REMOVE TEMPORARY TOWER (AE)	LS	LUMP SUM	LUMP SUM	
10	049282	FURNISH AND REMOVE TEMPORARY TOWER (AW)	LS	LUMP SUM	LUMP SUM	
11	049283	FURNISH AND REMOVE TEMPORARY TOWER (BE)	LS	LUMP SUM	LUMP SUM	
12	049284	FURNISH AND REMOVE TEMPORARY TOWER (BW)	LS	LUMP SUM	LUMP SUM	
13	049285	FURNISH AND REMOVE TEMPORARY TOWER (CE)	LS	LUMP SUM	LUMP SUM	
14	049286	FURNISH AND REMOVE TEMPORARY TOWER (CW)	LS	LUMP SUM	LUMP SUM	
15	049287	FURNISH AND REMOVE TEMPORARY TOWER (DE)	LS	LUMP SUM	LUMP SUM	
16	049288	FURNISH AND REMOVE TEMPORARY TOWER (DW)	LS	LUMP SUM	LUMP SUM	
17	049289	FURNISH AND REMOVE TEMPORARY TOWER (E2E)	LS	LUMP SUM	LUMP SUM	
18	049290	FURNISH AND REMOVE TEMPORARY TOWER (E2W)	LS	LUMP SUM	LUMP SUM	
19	049291	FURNISH AND REMOVE TEMPORARY TOWER (FE)	LS	LUMP SUM	LUMP SUM	
20	049292	FURNISH AND REMOVE TEMPORARY TOWER (FW)	LS	LUMP SUM	LUMP SUM	

ENGINEER'S ESTIMATE
ALTERNATIVE 2 DOMESTIC STEEL AND IRON ALTERNATIVE
04-0120F4

Item	Item Code	Item	Unit of Measure	Estimated Quantity	Unit Price	Item Total
1	030748	WORKING DRAWING CAMPUS	LS	LUMP SUM	LUMP SUM	
2	030702	ELECTRONIC MOBILE DAILY DIAIRY COMPUTER SYSTEM DATA DELIVERY	LS	LUMP SUM	LUMP SUM	
3	BLANK					
4	030704	EROSION CONTROL (TYPE B)	M2	1570		
5	070010	PROJECT SCHEDULE (CRITICAL PATH)	LS	LUMP SUM	LUMP SUM	
6	070018	TIME-RELATED OVERHEAD	LS	LUMP SUM	LUMP SUM	
7	071322	TEMPORARY FENCE (TYPE CL-1.8)	M	205		
8	030705	3.66 M TEMPORARY GATE (TYPE CL-1.8)	EA	1		
9	049281	FURNISH AND REMOVE TEMPORARY TOWER (AE)	LS	LUMP SUM	LUMP SUM	
10	049282	FURNISH AND REMOVE TEMPORARY TOWER (AW)	LS	LUMP SUM	LUMP SUM	
11	049283	FURNISH AND REMOVE TEMPORARY TOWER (BE)	LS	LUMP SUM	LUMP SUM	
12	049284	FURNISH AND REMOVE TEMPORARY TOWER (BW)	LS	LUMP SUM	LUMP SUM	
13	049285	FURNISH AND REMOVE TEMPORARY TOWER (CE)	LS	LUMP SUM	LUMP SUM	
14	049286	FURNISH AND REMOVE TEMPORARY TOWER (CW)	LS	LUMP SUM	LUMP SUM	
15	049287	FURNISH AND REMOVE TEMPORARY TOWER (DE)	LS	LUMP SUM	LUMP SUM	
16	049288	FURNISH AND REMOVE TEMPORARY TOWER (DW)	LS	LUMP SUM	LUMP SUM	
17	049289	FURNISH AND REMOVE TEMPORARY TOWER (E2E)	LS	LUMP SUM	LUMP SUM	
18	049290	FURNISH AND REMOVE TEMPORARY TOWER (E2W)	LS	LUMP SUM	LUMP SUM	
19	049291	FURNISH AND REMOVE TEMPORARY TOWER (FE)	LS	LUMP SUM	LUMP SUM	
20	049292	FURNISH AND REMOVE TEMPORARY TOWER (FW)	LS	LUMP SUM	LUMP SUM	